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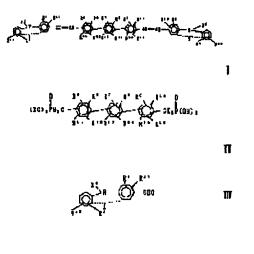
HOSOKAWA CHISHIO KUSUMOTO TADASHI

(54) ORGANIC ELECTROLUMINESCENT ELEMENT

(57)Abstract:

PURPOSE: To obtain the element containing a compound having excellent hole transport properties, being resistant to crystallization even when made into an element and having good heat stability, and being excellent in film thinness by using a styryl compound of a specified structure.

CONSTITUTION: A styryl compound of a terphenylene derivatie, represented by formula I (wherein R1 to R20 are each H, halogen, 1–6C alkyl, alkoxyl, 6–18C aryloxyl, phenyl, amino, substituted amino or hydroxyl, provided that any two adjoining members of them may be combined with each other to form a five- or six-membered ring; Z1 and Z2 are each H, 1–6C alkyl, 6–20C aryl, 7–20C aralkyl or a bond to the adjacent benzen ring, and dotted lines 1 and 2 represent that the related groups may be combined with each other to form a heterocyclic structure) is used for the luminous layer, hole injection and transport layer, etc., of an organic electroluminescent element. A compound of formula I



can be obtained, for example, by condensing a phosphonic ester of formula II with an aldehyde compound of formula III or IV in the presence of a base.

LEGAL STATUS

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